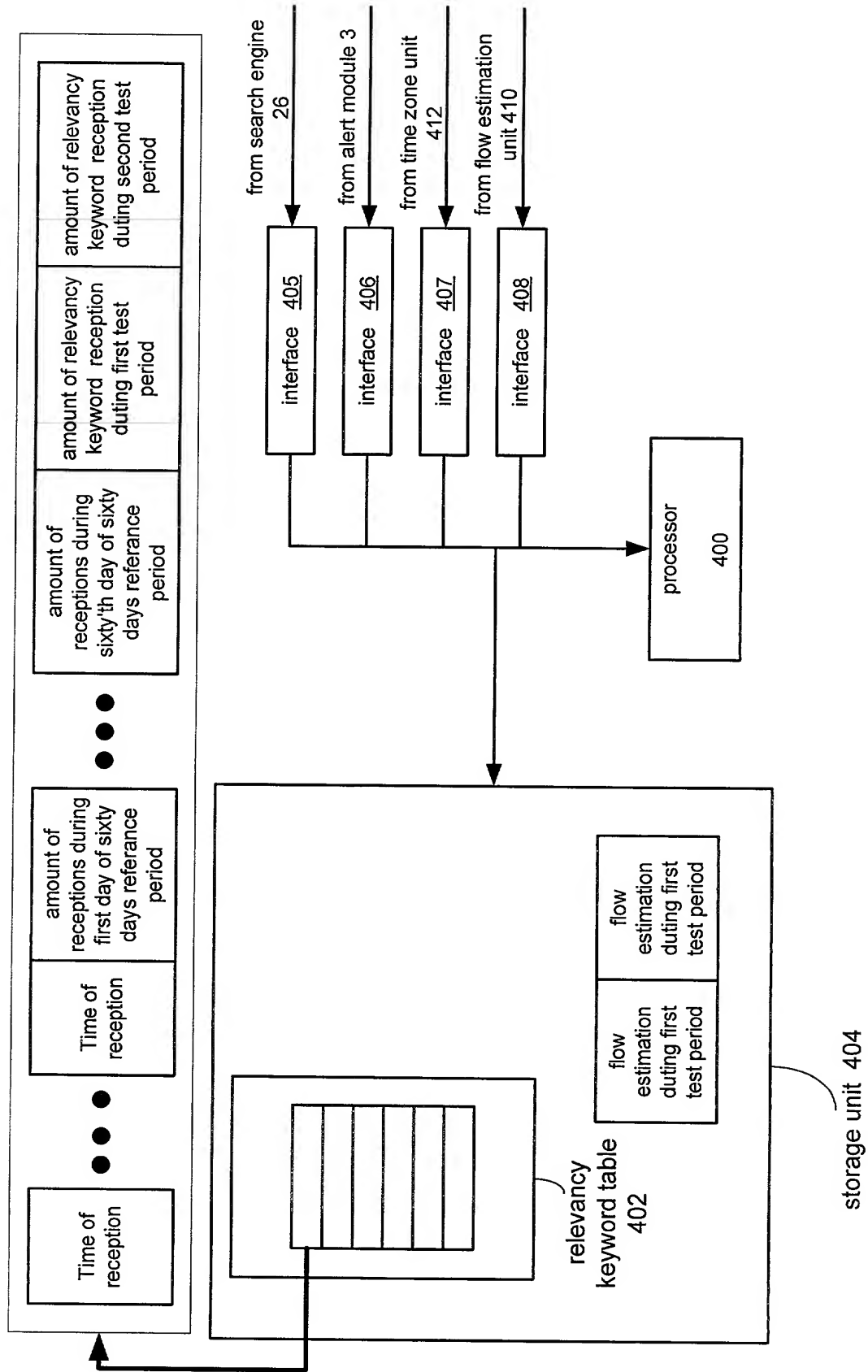
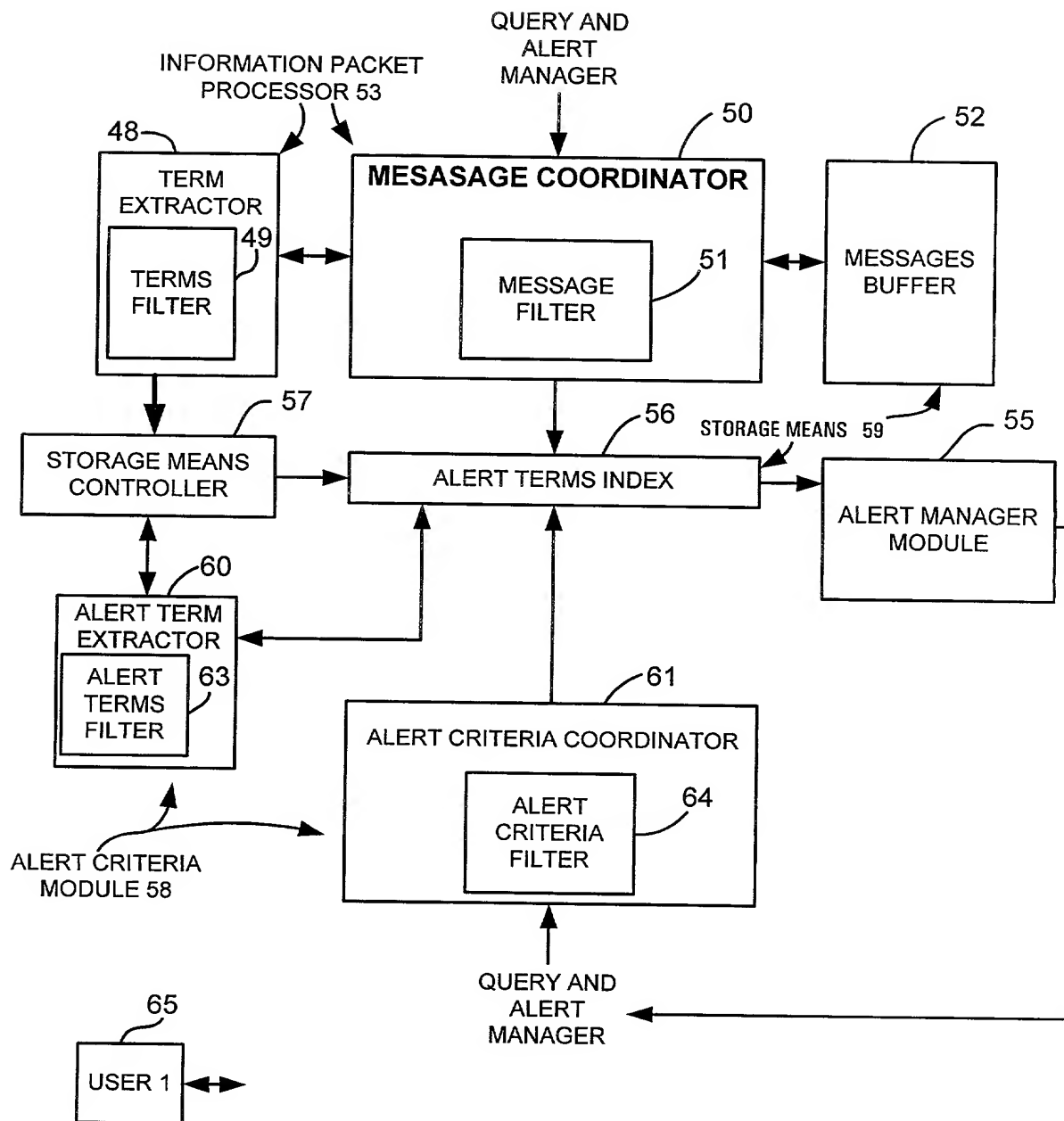


FIG. 1a

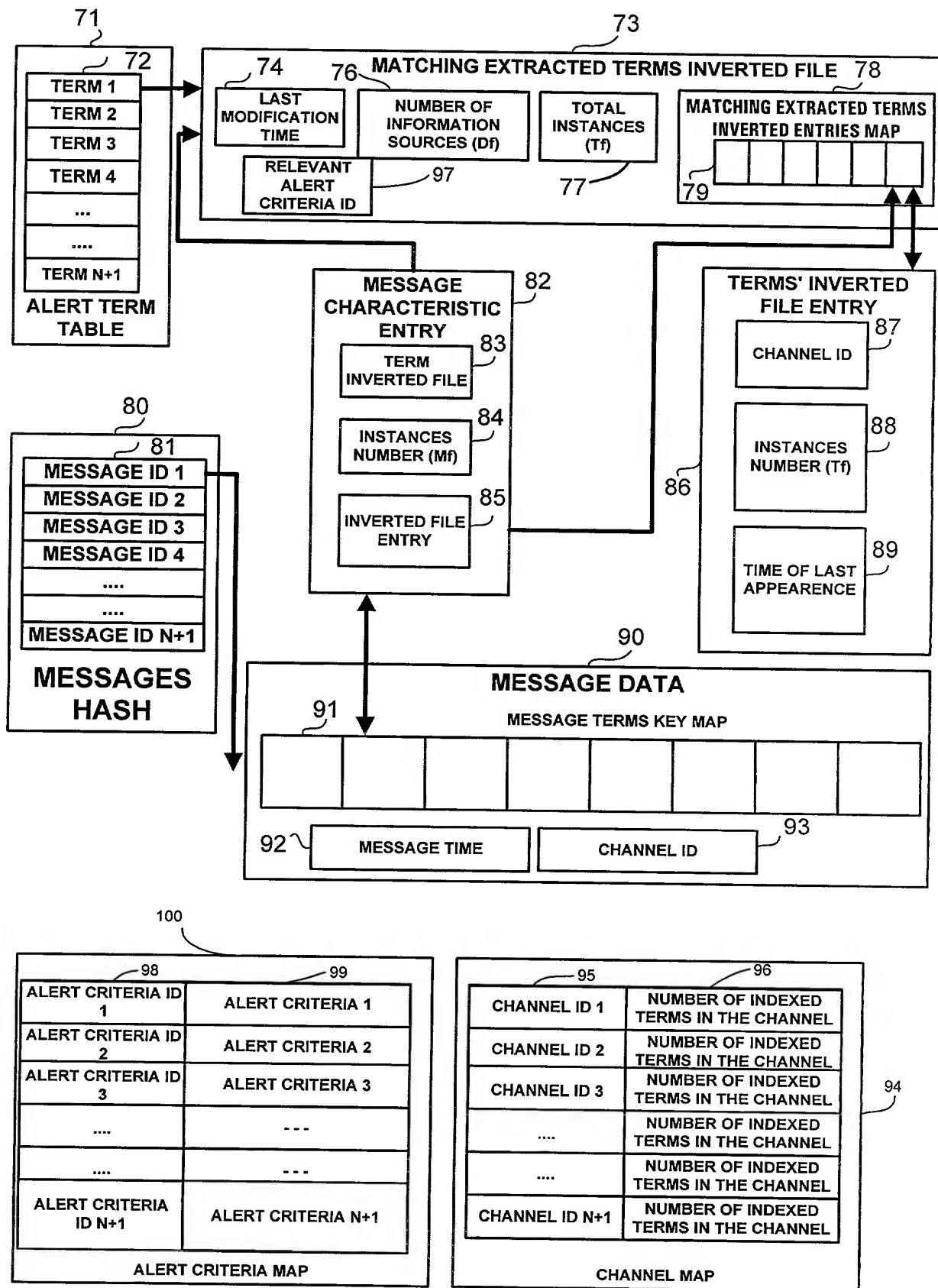
FIG. 1b





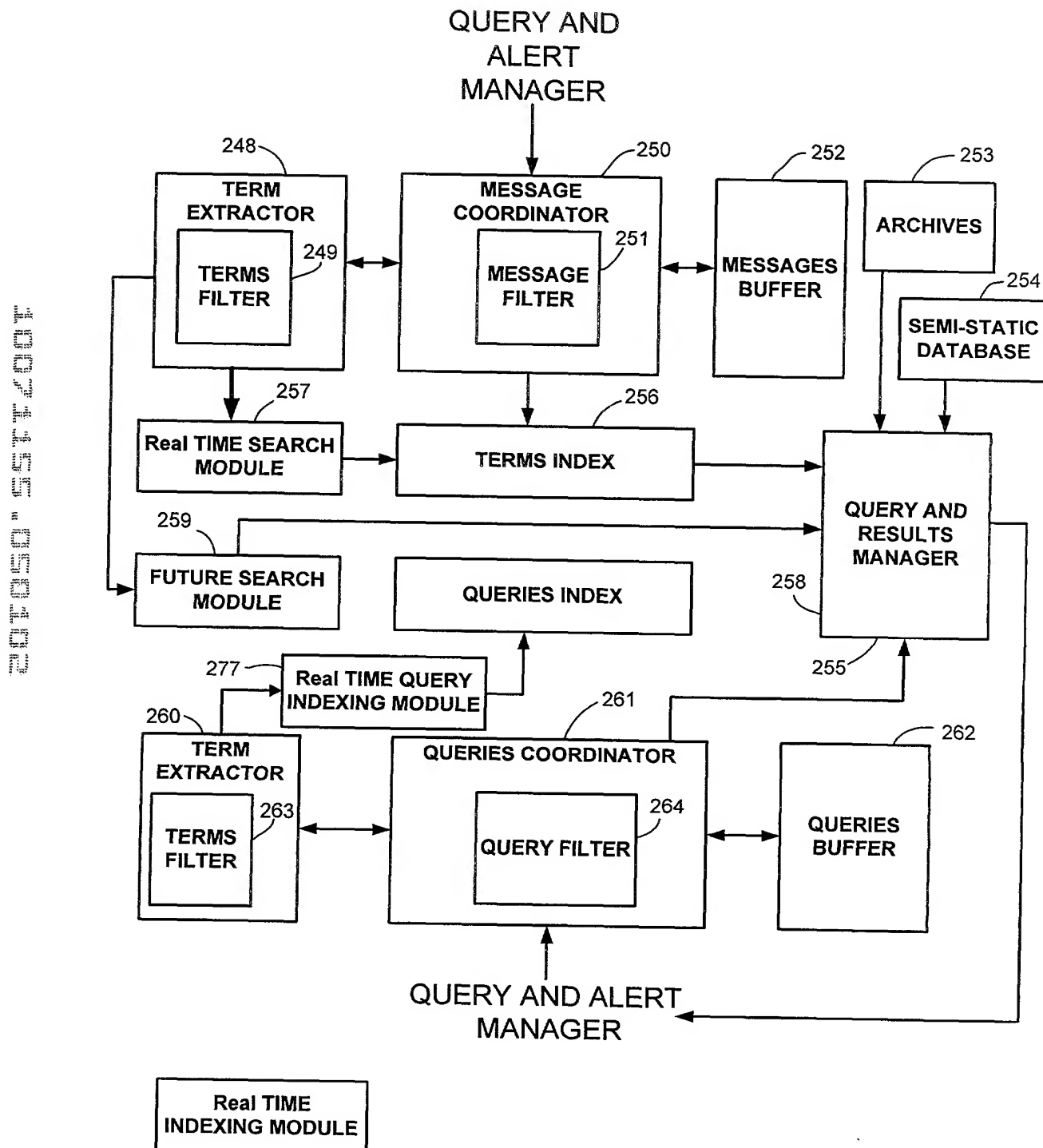
Real TIME SEARCH  
MODULE

**ALERT MODULE**  
**FIG. 2**



THE ALERT INDEX

FIG. 3



SEARCH ENGINE

FIG. 4

**FIG. 5**

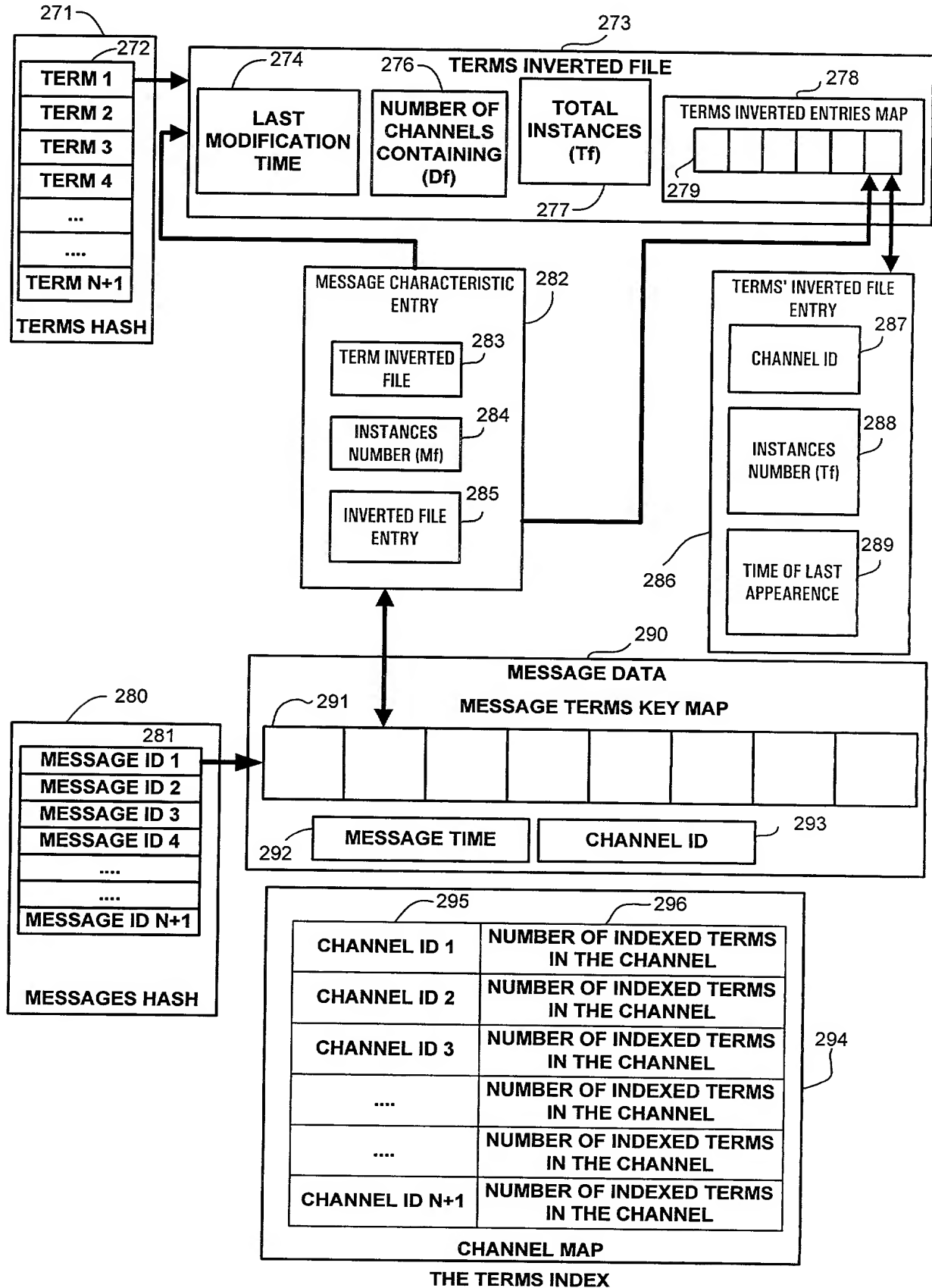
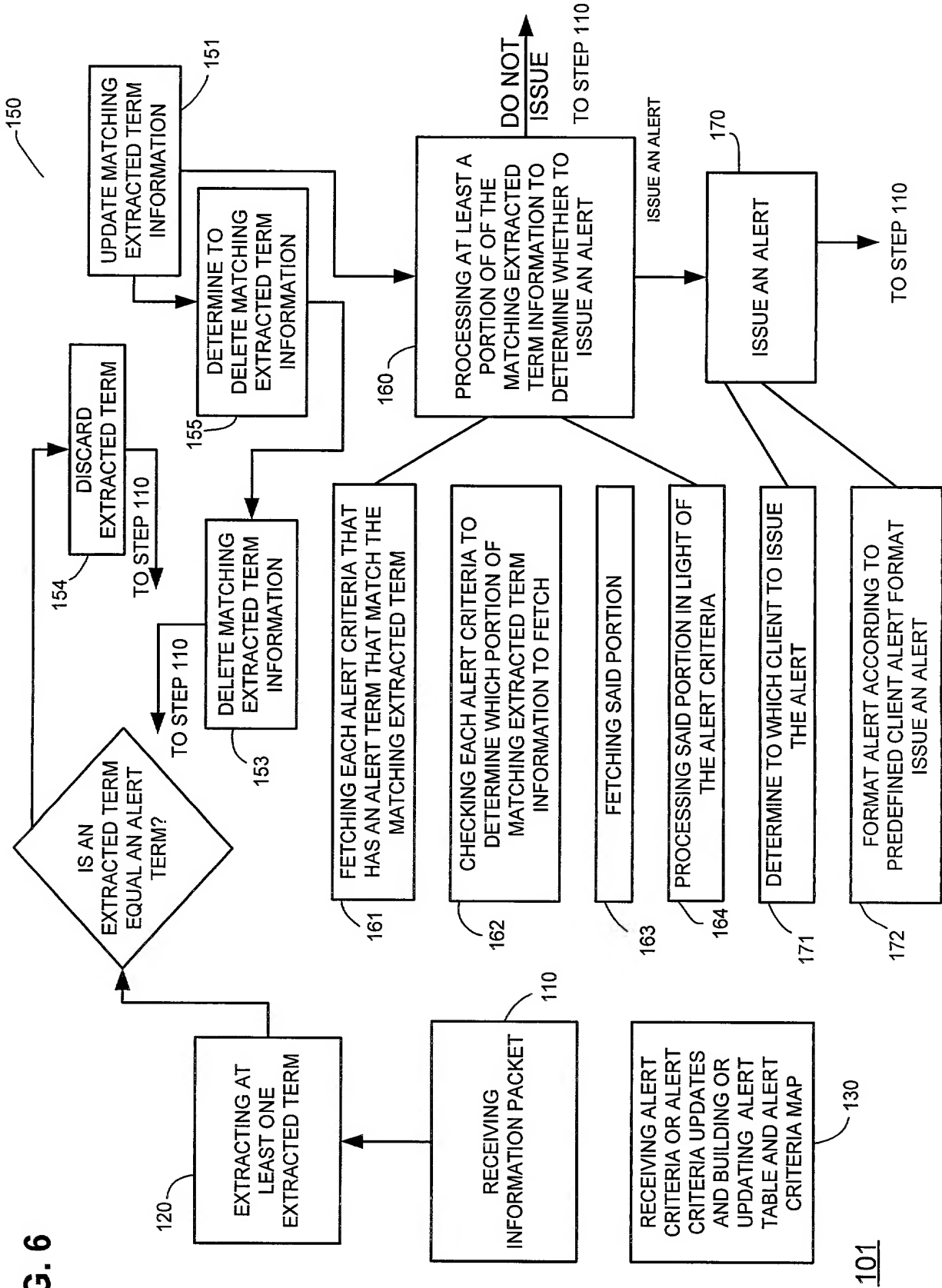


FIG. 6



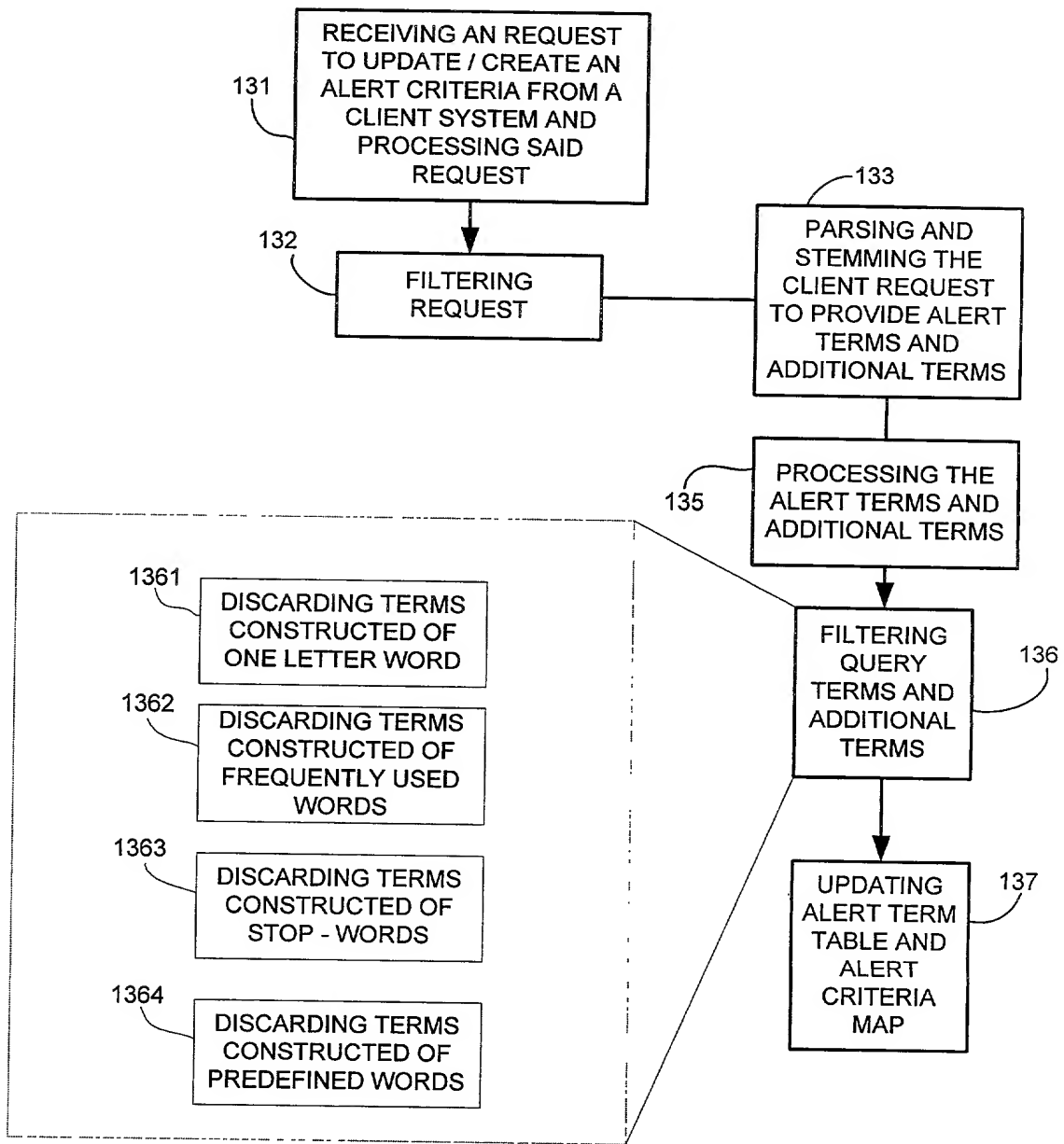


FIG. 7



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graph TD
    111[111 PROCESSING THE PLURALITY OF INFORMATION PACKETS] --> 112[112 FILTERING THE PLURALITY OF INFORMATION PACKETS]
    112 --> 113[113 PARSING AND STEMMING THE PLURALITY OF INFORMATION PACKETS]
    113 --> 114[114 PROCESSING EXTRACTED TERMS]
    114 --> 125[125 FILTERING THE EXTRACTED TERMS]
    125 --> 151[151 UPDATE MATCHING EXTRACTED TERM INFORMATION]
    151 --> 153[153 DELETING MATCHING EXTRACTED TERM INFORMATION]
    153 --> 151
    
    1152[1152 DISCARDING TERMS CONSTRUCTED OF FREQUENTLY USED WORDS] -.-> 125
    1151[1151 DISCARDING TERMS CONSTRUCTED OF ONE LETTER WORD] -.-> 125
    1154[1154 DISCARDING TERMS CONSTRUCTED OF PREDEFINED WORDS] -.-> 125
    1153[1153 DISCARDING TERMS CONSTRUCTED OF STOP - WORDS] -.-> 125
    
    1512[1512 INCREASING VALUE OF TOTAL INSTANCES] -.-> 151
    1514[1514 INSERTING EXTRACTED TERMS INTO TERMS HASH TABLE AND TERMS INVERTED FILE] -.-> 151
    1515[1515 UPDATING VALUE OF LAST MODIFICATION TIME] -.-> 151
    1511[1511 INCREASING VALUES OF INSTANCES NUMBER IN INVERTED MAP TABLE] -.-> 151
    1553[1553 INSERTING THE EXTRACTED TERM TO MESSAGE DATA TABLE] -.-> 151
    1519[1519 UPDATING VALUE OF MESSAGE TIME IN MESSAGES DATA TABLE] -.-> 151
    1534[1534 ACCESSING SAID ENTRIES] -.-> 153
    1535[1535 DELETING EXTRACTED TERM/ CANCELLING A LINK BETWEEN EXTRACTED TERM IN TERMS HASH TALE AND IN TERMS INVERTED FILE] -.-> 153
    1533[1533 DECREASING VALUE OF TOTAL INSTANCES] -.-> 153
    1532[1532 OBTAINING RELEVANT ENTRIES ASSOCIATED TO SAID INFORMATION PACKET] -.-> 153
    1531[1531 RECEIVING INFORMATION PACKET ID] -.-> 153
    1518[1518 INCREASING VALUE OF INSTANCES IN MESSAGE DATA TABLE] -.-> 151
    1516[1516 INSERTING INFORMATION PACKET DATA IN MESSAGE HASH TABLE] -.-> 151
    1513[1513 INSERTING INFORMATION SOURCE ID TO A TERMS INVERTED ENTRY] -.-> 151
  
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The flowchart illustrates a method for processing information packets. It begins with processing the plurality of information packets (111), followed by filtering the plurality of information packets (112), parsing and stemming the plurality of information packets (113), and processing extracted terms (114). The process then moves to filtering the extracted terms (125). From 125, the flow proceeds to update matching extracted term information (151). This step involves several sub-processes: increasing the value of total instances (1512), inserting extracted terms into terms hash table and terms inverted file (1514), updating the value of last modification time (1515), increasing values of instances number in inverted map table (1511), inserting the extracted term to message data table (1553), and updating the value of message time in messages data table (1519). The flow then moves to deleting matching extracted term information (153). This step involves accessing said entries (1534), deleting extracted term/cancelling a link between extracted term in terms hash tale and in terms inverted file (1535), decreasing the value of total instances (1533), obtaining relevant entries associated to said information packet (1532), and receiving information packet ID (1531). The process then loops back to update matching extracted term information (151).

**FIG. 9**

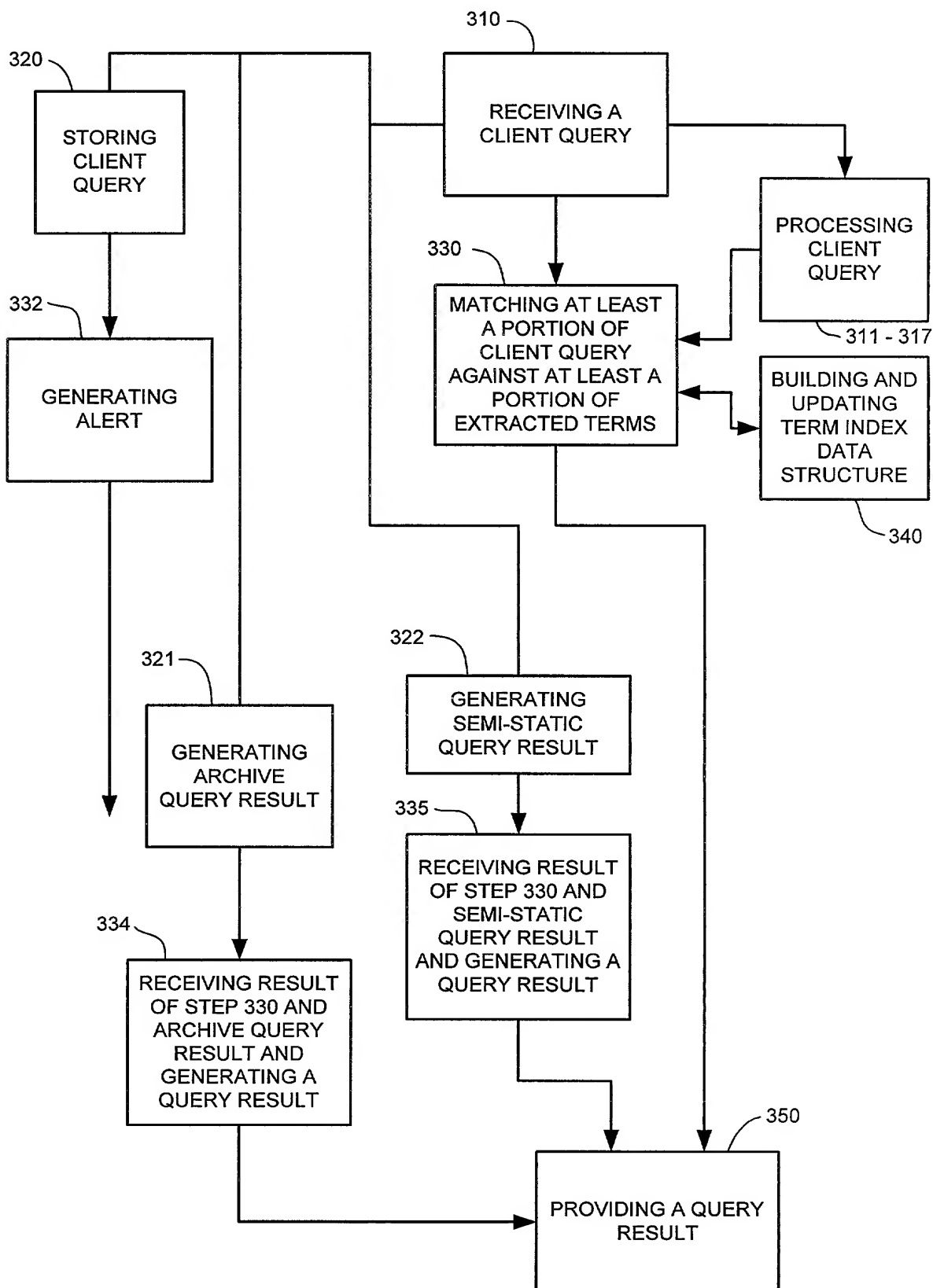


FIG. 10

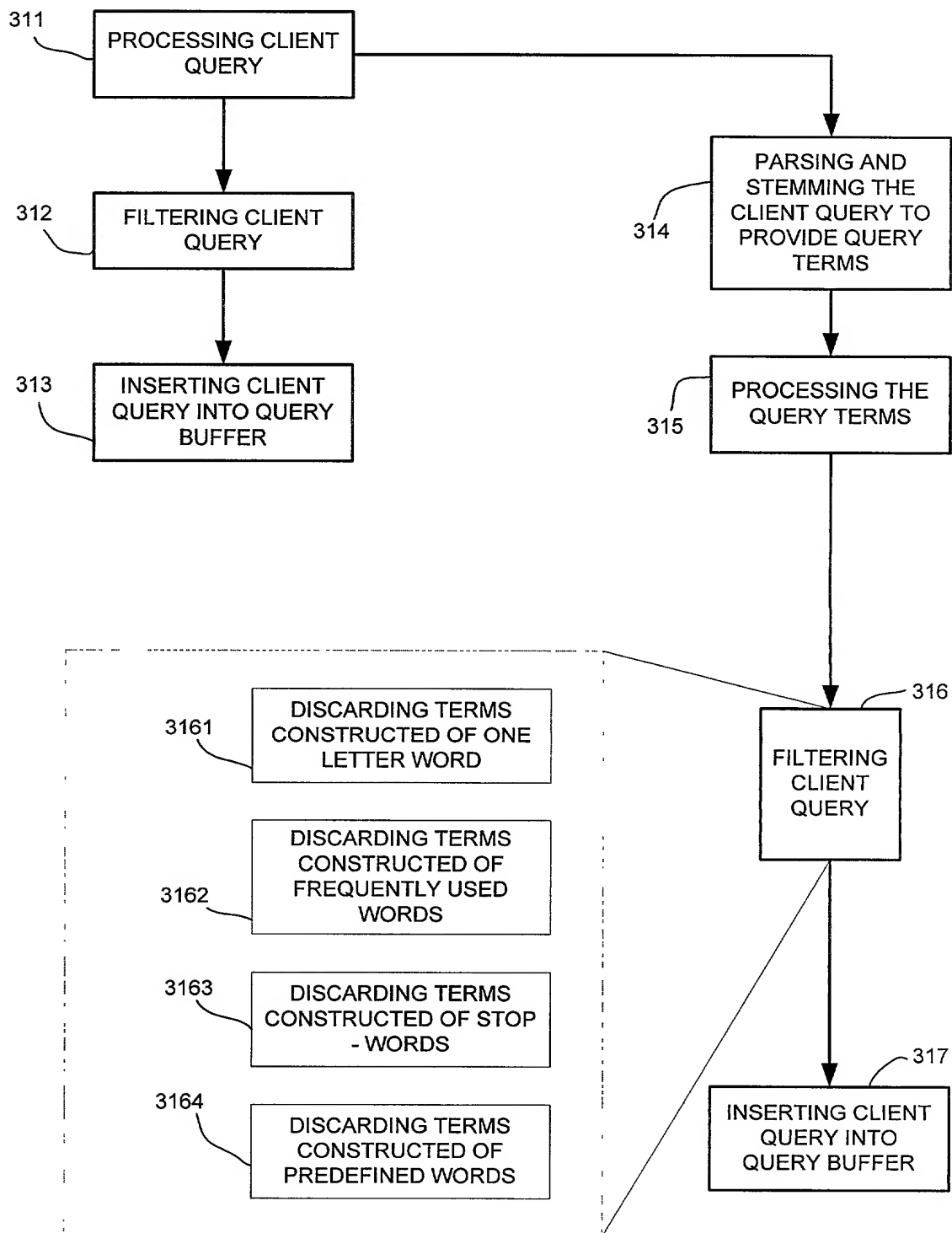
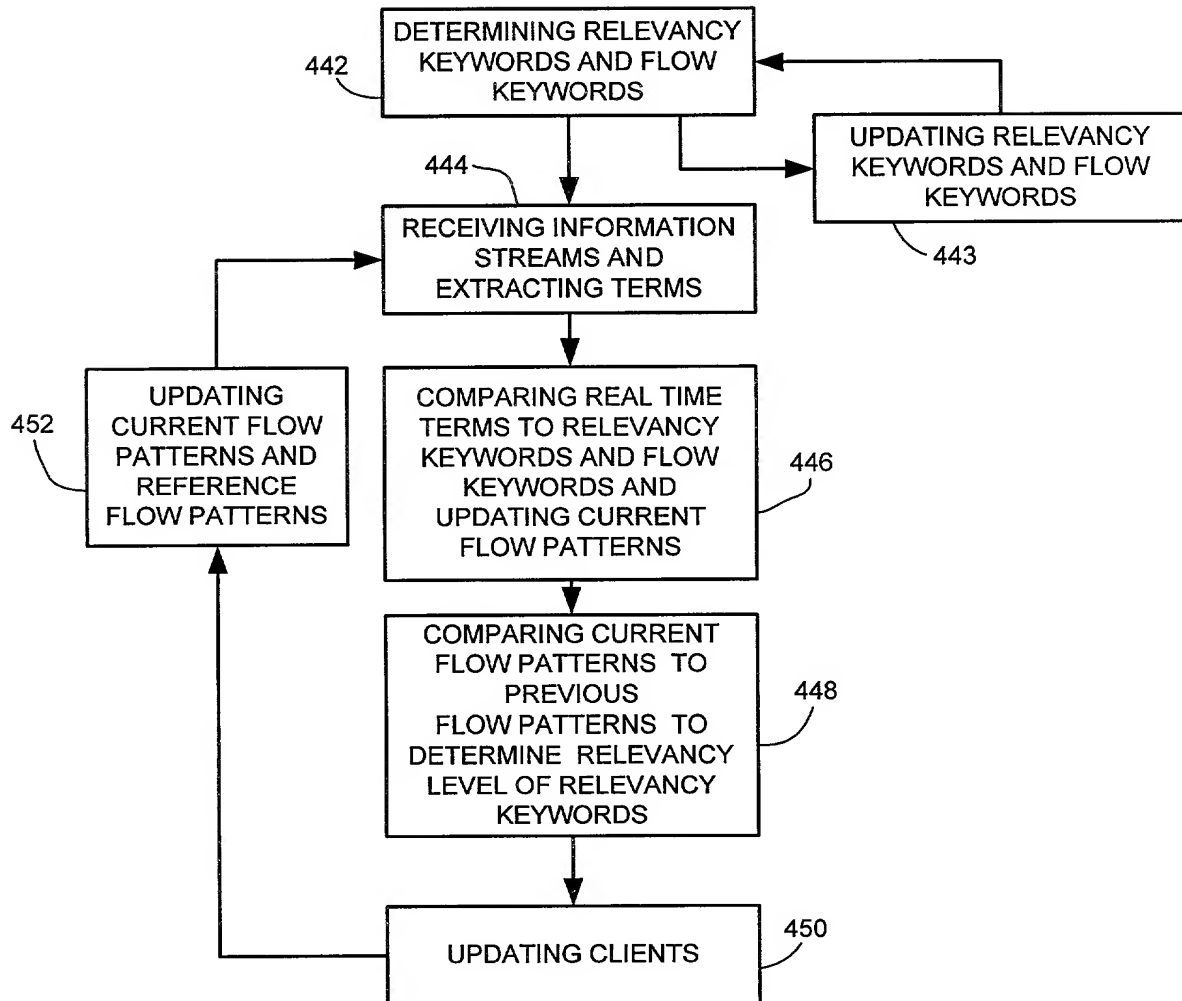


FIG. 11



440

FIG. 12

